

Title (en)

Active cooling system for drive components of vehicles.

Title (de)

Aktives Kühlsystem für Antriebskomponenten von Fahrzeugen

Title (fr)

Système de refroidissement actif pour des composants de l'entraînement de véhicules

Publication

EP 2375107 A1 20111012 (EN)

Application

EP 11161635 A 20110408

Priority

IT TO20100281 A 20100412

Abstract (en)

An active cooling system for drive components (1) of vehicles comprising at least one oil cooling circuit transporting the heat from a drive line of the vehicle to a radiator mounted to the vehicle and cooled by natural or forced air flow. The active cooling system comprises a heat exchanger system for additional drive components of the vehicle wherein in use heat is produced, said heat exchanger system including a cavity (9; 29; 39) connected into said at least one oil cooling circuit of the drive line and in fluid isolation from any fluids within a housing (2; 20; 30) of the additional drive component (1), said cavity (9; 29; 39) being arranged in heat exchanging relationship with the component (1) to be cooled.

IPC 8 full level

F16H 57/04 (2010.01)

CPC (source: EP)

F16H 57/0417 (2013.01)

Citation (search report)

- [X] EP 2161479 A1 20100310 - FORD GLOBAL TECH LLC [US]
- [X] WO 2005116491 A1 20051208 - HANSEN TRANSMISSIONS INT [BE], et al
- [X] US 6997238 B1 20060214 - RUTHY MICHAEL C [US], et al
- [X] US 2002077210 A1 20020620 - MORSE DAVID M [US], et al

Cited by

CN110268146A; EP3926215A1; US9360104B1; WO2018111396A1; US10247296B2; US10753455B2

Designated contracting state (EPC)

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